Server Side Flow /* @resourceallocator_2 is invoked each time for each RPC * from any client. Therefore, a thread is created

* to services this request,

*/

Function: resourceallocator_2

```
void * resourceallocator_2(void *data)
{ ....
  pthread_create(&p_thread[id],&attr[id],serv_request,(void *)data_ptr);
}
```

Function: allocate_2_svc

}

```
void * allocate_2_svc(void *data)
{ ....
  /*Block: num_requestedResource < num_PrivateResources*/
   while (argp->req > rsrc_pvt);
   /* [Allocation]: Update the resources number */
   pthread_mutex_lock(&lock);
   rsrc_pvt-=argp->req;
   pthread_mutex_unlock(&lock);
   * Do Dummy Work for a random duration up to 3 secs*/
    work=rand()%4;
    sleep(work);
    result->rep = 2*(argp->req);
  /*[DeAllocation]: Update the resources number */
  pthread_mutex_lock(&lock);
   rsrc_pvt+=argp->req;
  pthread_mutex_unlock(&lock);
```

Function: serv_request

```
void * serv_request(void *data)
{ ....
    case allocate:
local = (bool_t (*) (char *, void *, struct svc_req *))allocat
    break;
```

e_2_svc;